

GDAAC Notes for MODIS Technical Team Meeting (8/6/98)

WEEKLY HIGHLIGHTS:

- Regression testing of PGE07 (V2.1) complete
- ECS Drop 4P1 installed, checkout nearly complete
- Took delivery and commenced SSI&T of V2.1 PGEs 12,13,14,15

WEEKLY PLAN:

- Participate in ECS Drop 4P checkout with respect to SSIT capabilities
- Test repeatability of PGE 1-2-3 chain in Ops mode

WORK IN PROGRESS AND FUTURE:

- Production Rule information needed from SDST to complete integration of PGEs 09, 10, 16, 17, 19 (need delivery date)
- Test data generation in progress; 4 hours received to date – this data is not useful for testing until corresponding attitude and ephemeris data are made available (scheduled availability: 8/20/98); additional data required to test Y2K compliance
- L1B Data volume increase (DAAC impact assessment in progress)
- SSIT Agreement updates (CCRs)
- **MODIS-DAAC Science Agreement distributed to SDST and STMs for comment 6/98**
 - Comments needed by 8/30/98

ECS-SYSTEM

STATUS: YELLOW

Problem: Installation of Drop 4P1 into test mode (TS2) appears to have had some impact on other modes (TS1, Ops). Impact assessment underway. System installation, checkout and test procedures are maturing; documentation is being brought up to date. (Yellow).

- Drop 4P1 in Test mode (TS2), Drop 4.x in SSIT mode (TS1) and Operations mode (Ops).

MAPI / SDST TK

SSIT STATUS: GREEN

- Lien established for Error List, work-off by 7/31/98. (Lien assessment in progress)

OCEAN_LIB

SSIT STATUS: YELLOW

Problem: DAAC cannot promote PGE to operations without error list documentation, lien pending; resolution schedule pending SDST communication with algorithm developers.(Yellow)

- Delivered 4/15/98; Inspection complete; Build complete.

Production readiness

Work days for SSIT	Best Case	Nominal Case	Actual
Inspection	1	3	3 (n=11)
Integration I	2	5	6 (n=10)
Integration II	4	8-15	16 (n=7)
Patch	1-4	3-8	3 (n=14)
Error Testing	4	8	4 (n=2)
Chain Testing	8	15	8 (n=2)
Total	23	54	40 (was 42)

Best Case: Little or no problems with ECS or PGE

Nominal Case: Minor problems encountered and resolved; no major blunders

Actual: Averages to date

Phases of SSI&T:

Inspection: Delivered Algorithm Package is inspected for contents and completeness. PGE is inspected for documentation, formats, file structures, and standards compliance.

Integration-I: PGE is built and run from the command line. Generated data product(s) are verified with SDST supplied comparison file(s). (**DAACbuild** for a library)

Integration-II: PGE is registered into ECS, including population of PDPS database. Test data is inserted into the Data Server for staging into production. PGE execution is planned and scheduled through ECS PDPS utilizing Autosys scheduler. Generated product(s) inserted into Data Server. Generated data product is retrieved from Data Server for verification.

GSFC DAAC Launch Readiness

PGE Name	Delivered	Integrated	Chained	Duty Cycle	Ops Readiness	§	Launch Readiness*	Notes
PGE01 (2.1)	4/15/98	5/8/98	5/20/98	100%		G	expected	Lien, SDST to provide error list by 7/31/98; <i>Lien assessment in progress</i>
PGE02 (2.0)	1/29/98	3/18/98	5/20/98	100%		G	expected	Lien, SDST to provide error list by 7/31/98; <i>Lien assessment in progress</i>
PGE02 (2.1)								
PGE03	2/18/98	4/27/98	5/26/98	100%		G	expected	Lien, SDST to provide error list by 7/31/98; <i>Lien assessment in progress</i>
PGE04	3/20/98	5/28/98	8/15/98			G	expected	Lien, SDST to provide error list by 8/31/98
PGE05	3/16/98	on hold				R	expected	Drop 4P1 needed in SSIT mode to complete integration; Lien, SDST to provide error list by 8/31/98
PGE11 (2.2)	1/7/98	6/8/98	8/31/98			G	expected	
PGE17	4/17/98	7/21/98	8/31/98			Y	expected	Lien pending, SDST to provide error list for launch readiness; Prod rules PVL needed from SDST to verify integration
PGE19	4/17/98	7/22/98	8/31/98			Y	expected	Lien pending, SDST to provide error list for launch readiness; Prod rules PVL needed from SDST to verify integration
PGE09	5/7/98	on hold				R	expected	Lien pending, SDST to provide error list for launch readiness; Prod rules PVL needed from SDST to complete integration
PGE12 (V2.1)	7/17/98					G	contingent	Inspection and Integration I complete; ECS to provide Land Tiling 10/98; Lien, SDST to provide error list by 9/30/98
PGE13 (V2.1)	7/20/98					G	contingent	Inspection complete, Integration I in progress; ECS to provide Land Tiling 10/98; Lien, SDST to provide error list by 9/30/98
PGE14 (V2.1)	7/22/98					G	contingent	Inspection complete, Integration I in progress; ECS to provide Land Tiling 10/98; Lien, SDST to provide error list by 10/31/98
PGE06	6/18/98						<i>expected</i>	Compiler upgrade complete; version 1.0 was successfully integrated
PGE07 (V2.1)	6/8/98	7/23/98				G	expected	Lien, SDST to provide error list by 8/31/98
PGE20								
PGE10	5/22/98	on hold				R		Prod rules PVL needed from SDST to complete integration; Lien pending, SDST to provide error list for launch readiness
PGE49								
PGE50								
PGE53								
PGE54								
PGE69								
PGE56								
PGE16	6/22/98	on hold				R		Prod rules PVL needed from SDST to complete integration; additional ESDT must be specified to complete integration; Lien pending, SDST to provide error list for launch readiness
PGE15 (V2.1)	7/27/98						contingent	Inspection complete, Integration I in progress; ECS to provide Land Tiling 10/98; Lien, SDST to provide error list by 10/31/98
PGE08 (V2.1)	6/10/98	7/23/98				G	expected	Lien, SDST to provide error list by 8/31/98
*12/98 Launch		<i>contingent</i>	available if known high risk problems are addressed					
		<i>expected</i>	no known high risk obstacles for launch readiness					
		<i>demonstrated</i>	demonstrated through Ops Readiness Exercises (OREs)					
§ PGE Status Codes:								
Complete	PGE is ready to process data at launch in validation mode or ops mode							
Green	No problems or Category 1 fixes only; no high-risk liens on PGE							
Yellow	Problems in test; Category 2 or 3 fix pending; lien pending or expired							
Red	SSIT has stopped; PGE will not run in its current form; fix required before testing can continue							

8/18/98